

REPORT DOCUMENTATION PAGE

AFRL-SR-AR-TR-03-

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and reviewing
or information

1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE May 2003	3. RI 1 APR 01 - 31 MAR 02
4. TITLE AND SUBTITLE PARALLEL HARDWARE INFRASTRUCTURE FOR RESEARCH AND EDUCATION IN COMPUTATIONAL ELECTROMAGNETICS			5. FUNDING NUMBERS F49620-01-1-0240
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7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) APPLIED & COMPUTATIONAL MATHEMATICS CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 E. CALIFORNIA BLVD., MS-217-50 PASADENA, CA 91125			8. PERFORMING ORGANIZATION REPORT NUMBER
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) AFOSR/NM 4015 WILSON BLVD, ROM 713 ARLINGTON, VA 22203-1954			10. SPONSORING/MONITORING AGENCY REPORT NUMBER F49620-01-1-0240
11. SUPPLEMENTARY NOTES			
12a. DISTRIBUTION AVAILABILITY STATEMENT APPROVED FOR PUBLIC RELEASE, DISTRIBUTION UNLIMITED			12b. DISTRIBUTION CODE
13. ABSTRACT (Maximum 200 words) For a period of approximately six months our research group (including postdocs and students involved in the computational electro magnetics effort as well as the departmental system administrator) tin t with approximately three to four vendors per month, and had meetings to consider the various infrastructures offered. After this period a focus was developed on Intel Pentium IV Xeon based systems. Upon further consideration of the most competitive pricing quality of service and reliability the decision was reached to purchase the system front promicro systems"-a vendor base based in the San Diego area. The system consist of 256 processors, arranged as a group of 128 dual Intel Pentium IV Xeon 1.7 GHz boxes, each one with 1 Gb of RAM. In addition the system has a 0.5 Tb Raid, an subsystem containing 16 boxes interconnected by an ultra- fast Myrubit interconnect, as well as Gb Ethernet in another 16 box subsystem. The system was housed in a room fully- refurbished for this purposes, with support (\$80k) provided in its entirety by the Calteeh provost office. In addition, the Caltech provosts office provided matching funds for the computer purchase in the amount of \$120k. The system. which was fully set up by the departmental system administrator, Chad Schmnutzer, is highly reliable, fast and efficient, and is now providing outstanding service to present amid past postdocs, students and faculty associated with the computational electro- magnetics effort.			
14. SUBJECT TERMS			15. NUMBER OF PAGES 1
			16. PRICE CODE
17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT

20030520 116

Award No F49620-01-1-0240

*"Parallel Hardware Infrastructure for Research and Education
in Computational Electromagnetics"*

Final Technical Report

Oscar P. Bruno, PI
May 2003

Objective

Development of a parallel computational infrastructure for computational electromagnetism.

Report

For a period of approximately six months our research group (including postdocs and students involved in the computational electromagnetics effort as well as the departmental system administrator) met with approximately three to four vendors per month, and had meetings to consider the various infrastructures offered. After this period a focus was developed on Intel Pentium IV Xeon based systems. Upon further consideration of the most competitive pricing, quality of service and reliability, the decision was reached to purchase the system from "promicro systems"—a vendor based in the San Diego area.

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